5 **REPLACEMENT ABSTRACT**

Applicant: VALEO VISION

Inventor: Maurice MILGRAM, Didier DUMONCEL, Catherine ACHARD, William IVALDI

ABSTRACT

The invention concerns a method of detecting from a vehicle a bend on in a road

10 comprising a surface (1) and road edges (2, 3), comprising the following operations:

- taking an image of a road scene unfolding in front of the vehicle and at

least partly illuminated by the vehicle,

- determining, for each pixel in the image a light decrease gradient,

- analysing these decrease gradients and determining an image of the

15 road edges,

- mathematically discriminating the gradients from the image of the

road edges,

- analyzing this discrimination and determining edges, and the an angle of the

bend.

20 The invention also concerns a system for implementing the method of the invention

comprising a camera (10) mounted in the vehicle, an image processing unit (20) and a

neural network (21).

Figures 1, 2 and 3

811396 v1